

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	85	455/313,314,315,316,323,324, 325,326,334,335,336,337,338, 339,340,341,.ccls. and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and switch\$4 and ((mix\$4 or filter\$3) with (switch\$4 or control\$4)) and (polyphase or poly adj phase)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 15:54
S3	0	("2006/0160518").URPN.	USPAT	OR	ON	2006/10/31 14:46
S4	10	("6016422"   "6055429"   "6064664"   "6192225"   "6308058"   "6385439"   "6545516"   "6597899"   "6665159"   "6785529").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:22
S5	14	("20030031273"   "20030053563"   "5438692"   "5584068"   "5826174"   "6137353"   "6148047"   "6169463"   "6272329"   "6314279"   "6317067"   "6366604"   "6442380"   "6477148").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/31 15:31
S6	346	455/313,314,315,316,323,324, 325,326,334,335,336,337,338, 339,340,341,.ccls. and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and switch\$4 and ((mix\$4 or filter\$3) near2 (switch\$4 or control\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:13
S7	297	455/313,314,315,316,323,324, 325,326,334,335,336,337,338, 339,340,341,.ccls. and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne or complex near4 mix\$4) and switch\$4 and ((mix\$4 or filter\$3) near2 (switch\$4 or control\$4)) not S2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:16
S8	74	455/313,314,315,316,323,324, 325,326,334,335,336,337,338, 339,340,341,.ccls. and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne or complex near4 mix\$4) and switch\$4 and ((mix\$4 or filter\$3) near2 (switch\$4 or control\$4)) not S2 and (switch\$4.ab.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:22

## EAST Search History

S10	706	(((zero adj IF) or quadrature) with mix\$3) same (((low adj IF) or complex) with mix\$3)) or (((zero adj IF) or quadrature) with mix\$3) same ((superheterodyne) with mix\$3)) or (((low adj IF) or complex) with mix\$3) same ((superheterodyne) with mix\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 17:54
S11	481	S10 and amplif\$6 and filt\$3 and (control\$4 or process\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:31
S12	188	S11 and (mix\$4 with (switch\$4 or select\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:33
S13	28	S12 and "455".class.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:33
S14	83	S12 and "455".class.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 16:13
S15	35	S12 and "455".class. and @pd<"20031007"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:37
S16	74	S14 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 17:57
S17	73	S16 and (receiv\$5 or recep\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 17:35

## EAST Search History

S18	56	(((((zero adj IF) or quadrature) with mix\$3) same (((low adj IF) or complex) with mix\$3)) same (mix\$4 with (switch\$4 or select\$4))) or (((((zero adj IF) or quadrature) with mix\$3) same ((superheterodyne) with mix\$3)) same (mix\$4 with (switch\$4 or select\$4))) or (((((low adj IF) or complex) with mix\$3) same ((superheterodyne) with mix\$3)) same (mix\$4 with (switch\$4 or select\$4))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 17:56
S19	48	S18 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 15:20
S20	4	(((((zero adj IF) or quadrature) near2 mix\$3) same (((low adj IF) or complex) near2 mix\$3)) same (mix\$4 with (switch\$4 or select\$4))) or (((((zero adj IF) or quadrature) near2 mix\$3) same ((superheterodyne) near2 mix\$3)) same (mix\$4 with (switch\$4 or select\$4))) or (((((low adj IF) or complex) near2 mix\$3) same ((superheterodyne) near2 mix\$3)) same (mix\$4 with (switch\$4 or select\$4))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 17:56
S21	3	S20 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 17:57
S22	0	(quadrature with zero-IF) and (complex with low-if) and heterodyne and (switch\$4 or select\$4) near2 mix\$4 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 19:03
S23	0	(quadrature with zero adj IF) and (complex with low adj if) and heterodyne and (switch\$4 or select\$4) near2 mix\$4 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 18:49

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S24	0	(quadrature same zero adj IF) and (complex same low adj if) and heterodyne and (switch\$4 or select\$4) near2 mix\$4 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 18:49
S25	3	"2001041584".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 18:53
S26	2	"20010041584".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 18:53
S27	0	(quadrature and zero-IF) and (complex and low-if) and heterodyne and (switch\$4 or select\$4) near1 mix\$4 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 19:03
S28	75	(quadrature or zero-IF) and (complex or low-if) and heterodyne and (switch\$4 or select\$4) near1 mix\$4 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:09
S29	98	(((multi adj mode)or multimode)near1 receiv\$4).ti,ab. and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:06
S30	1	"10531446"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 12:07
S31	0	wo0227953	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 12:08

## EAST Search History

S32	0	wo200227953	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 12:08
S33	1	"200227953"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 12:08
S34	175	((multi adj (mode or standard))or multistandard or multimode)near2 receiv\$4).ti,ab. and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S29	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:07
S35	4	((multi adj (mode or standard))or multistandard or multimode)near2 receiv\$4).ti,ab. and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S29 and ((zero adj if) or (low adj if) or superheterodyne or heterodyne)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:09
S36	18	((multi adj (mode or standard))or multistandard or multimode)near2 receiv\$4).ti,ab. and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S29 and ((zero adj if) or (low adj if) or superheterodyne or heterodyne or super adj heterodyne or quadrature)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:10
S37	587	(four or "4") with mixer with quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:16
S38	220	(four or "4") near2 mixer with quadrature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:16
S39	202	(four or "4") near2 mixer with quadrature and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:17

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S40	202	(four or "4") near2 mixers with quadrature and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:17
S41	85	(four or "4") near2 mixers with quadrature and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/01 15:30
S42	0	mixers same quadrature same (zero adj if) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/01 15:31
S43	1	"10531446"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 14:51
S44	69	"455".clas. and (feedback or feed adj back) with quadrature with filter\$3 and (@rlad<"20030405" or @ad<"20030405" or @ptad<"20030405")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:13
S45	1	"10534771"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 15:06
S46	198	(feedback or feed adj back) with quadrature with filter\$3 and (@rlad<"20030405" or @ad<"20030405" or @ptad<"20030405") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:14
S47	190	(feedback or feed adj back) with quadrature with filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:15
S48	190	(feedback or feed adj back) with quadrature with filter\$3 same filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:44

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S49	0	(feedback or feed adj back) with quadrature with filter\$3 with opposite same filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:17
S50	359	filter\$3 same (transconductor or trans adj conductor) and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:03
S51	3609	filter\$3 same integrator same adjust\$5 (transconductor or trans adj conductor) and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:46
S52	13	filter\$3 same integrator same adjust\$5 same (transconductor or trans adj conductor) and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:52
S53	30	filter\$3 same integrator same (transconductor or trans adj conductor) near4 capacitor and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 17:52
S54	75	(quadrature or zero-IF) and (complex or low-if) and heterodyne and (switch\$4 or select\$4) near1 mix\$4 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:10
S55	878	(quadrature or zero-IF) and (complex or low-if) and (heterodyne or super adj heterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:10
S56	84	(quadrature or zero-IF) same (complex or low-if) same (heterodyne or super adj heterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:10

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S57	105	(quadrature or zero-IF) same (complex or low-if) same (heterodyne or super adj heterodyne or superheterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:11
S58	72	(quadrature or zero-IF) same (complex or low-if) same (heterodyne or super adj heterodyne or superheterodyne) and mix\$3 and filter\$3 and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S54	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/07 18:12
S59	0	all adj pole near4 filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:04
S60	0	all adj pole with filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:04
S61	0	all near2 pole with filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:05
S62	548	elliptic near2 filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:05
S63	2	(all near1 pole or allpole) same elliptic near2 filter\$3 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:28
S64	17	FIR with adjust\$4 with delay with weight and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:43
S65	69	"455".clas. and (feedback or feed adj back) with quadrature with filter\$3 and (@rlad<"20030405" or @ad<"20030405" or @ptad<"20030405")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:45



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S66	198	(feedback or feed adj back) with quadrature with filter\$3 and (@rlad<"20030405" or @ad<"20030405" or @ptad<"20030405") not S65	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:45
S67	18	(feedback or feed adj back) same quadrature same filter\$3 same opposite and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007") not S66	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:45
S68	18	(feedback or feed adj back) same quadrature same filter\$3 same opposite and (@rlad<"20030405" or @ad<"20030405" or @ptad<"20030405") not S66	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 09:46
S69	4	"2002003844".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:12
S70	2	"20020003844".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:14
S71	2	"6029052".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/08 11:14
S72	3146	mix\$3 near3 configur\$4 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 12:16
S73	1178	mixer near3 configur\$4 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 12:17
S74	266	"455".clas. and mixer near3 configur\$4 and (@rlad<"20021007" or @ad<"20021007" or @ptad<"20021007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 12:17

## EAST Search History

S75	49	455/130,313,323,341,334,335, 324;375/136.ccls. and (multimode or multi adj mode) and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 15:20
S76	49	455/130,313,323,341,334,335, 324;375/136.ccls. and (multimode or multi adj mode) and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 16:12
S77	4	455/313,314,315,316,323,324, 325,326,334,335,336,337,338, 339,340,341,,ccls. and (multimode or multi adj mode) and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")not S76	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 15:55
S78	49	455/130,313,323,341,334,335, 324;375/136.ccls. and (multimode or multi adj mode) and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 16:12
S79	1	455/130,313,323,341,334,335, 324;375/336.ccls. and (multimode or multi adj mode) and receiver and ((zero adj IF) or (low adj IF) or quadrature or superheterodyne) and (@rlad<"20031007" or @ad<"20031007" or @ptad<"20031007") not S78	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/09 16:12